

1 **ABSTRACT**

2 A position touch screen panel using a unique pattern of arranging the
3 resistive sensing circuit, in which the touch screen panel is formed by two
4 substrates symmetrically overlapped, having four sensor lines extending along
5 the periphery of the substrates and creating parallel connections to cover four
6 corners, such that at least one pair of parallel connections in opposite corners
7 (on diagonal corners) shall attain matching voltages, where the matching
8 voltages shall be realized only if high voltage is measured from parallel
9 connections at one corner; and low voltage is measured from parallel
10 connections in an opposite corner; whereby voltage levels at corner points are
11 defined relative to other corner points on one sensor line, not from comparison
12 of two sensor lines. Using the above circuit arrangement, the touch screen panel
13 is able to determine the touch position accurately.